

What is claimed is:

1. An ink supply amount adjusting method for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller, comprising the steps of
  11. obtaining reference opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset relationship between an image area ratio and opening amounts of said ink fountain keys, and
  17. uniformly correcting the obtained reference opening amounts of said ink fountain keys with preset correction values, thereby obtaining set values of the opening amounts of said ink fountain keys.
2. A method according to claim 1, further comprising the step of overwriting the correction values of the opening amounts of said ink fountain keys.

00000000000000000000000000000000

3. A method according to claim 2, wherein the  
2 overwriting step comprises the steps of  
3 obtaining the reference opening amounts of  
4 said ink fountain keys, prior to start of actual  
5 printing, by following the preset relationship between  
6 the image area ratio and the opening amounts of said ink  
7 fountain keys, and  
8 obtaining correction values of the obtained  
9 reference opening amounts of said ink fountain keys on  
10 the basis of measured densities of a printing sample  
11 printed by using testing plates having the same image  
12 area ratio.

4. An ink supply amount adjusting method for a  
2 printing press having an ink fountain for storing an ink,  
3 an ink fountain roller to which said ink is supplied  
4 from said ink fountain, a plurality of ink fountain keys  
5 aligned in an axial direction of said ink fountain  
6 roller to adjust an amount of ink to be supplied from  
7 said ink fountain to said ink fountain roller, and an  
8 ink roller group for supplying said ink to a plate in an  
9 amount adjusted in accordance with a feed rate of said  
10 ink fountain roller, comprising the steps of  
11 uniformly presetting correction values of  
12 opening amounts of said ink fountain keys,  
13 correcting origin positions of the opening  
14 amounts of said ink fountain keys by using the preset

15 correction values, and  
16 setting the opening amounts of said ink  
17 fountain keys in accordance with image area ratios of  
18 respective areas, corresponding to said ink fountain  
19 keys, of said plate by following a preset relationship  
20 between an image area ratio and the opening amounts of  
21 said ink fountain keys.

5. A method according to claim 4, further  
2 comprising the step of overwriting the correction values  
3 of the opening amounts of said ink fountain keys.

6. A method according to claim 5, wherein the  
2 overwriting step comprises the steps of  
3 obtaining reference opening amounts of said  
4 ink fountain keys, prior to start of actual printing, by  
5 following the preset relationship between the image area  
6 ratio and the opening amounts of said ink fountain keys,  
7 and

8 obtaining correction values of the obtained  
9 reference opening amounts of said ink fountain keys on  
10 the basis of measured densities of a printing sample  
11 printed by using testing plates having the same image  
12 area ratio.

7. An ink supply amount adjusting method for a  
2 printing press having an ink fountain for storing an ink,

3       an ink fountain roller to which said ink is supplied  
4       from said ink fountain, a plurality of ink fountain keys  
5       aligned in an axial direction of said ink fountain  
6       roller to adjust an amount of ink to be supplied from  
7       said ink fountain to said ink fountain roller, and an  
8       ink roller group for supplying said ink to a plate in an  
9       amount adjusted in accordance with a feed rate of said  
10      ink fountain roller, comprising the steps of  
11                  presetting correction values of feed rates of  
12      said ink fountain rollers, and  
13                  correcting a preset reference feed rate of  
14      said ink fountain roller by using the preset correction  
15      values, thereby setting the feed rates of said ink  
16      fountain rollers.

8.       A method according to claim 7, further  
2       comprising the step of overwriting the correction values  
3       of the feed rates of said ink fountain rollers.

9.       A method according to claim 7, further  
2       comprising the steps of  
3                  obtaining reference opening amounts of said  
4       ink fountain keys in accordance with image area ratios  
5       of respective areas, corresponding to said ink fountain  
6       keys, of said plate by following a preset relationship  
7       between an image area ratio and the opening amounts of  
8       said ink fountain keys, and

9                   uniformly correcting the obtained reference  
10          opening amounts of said ink fountain keys with the  
11          preset correction values, thereby obtaining set values  
12          of the opening amounts of said ink fountain keys.

10.               A method according to claim 7, further  
2          comprising the steps of  
3                   uniformly setting the correction values of the  
4          opening amounts of said ink fountain keys,  
5                   correcting origin positions of the opening  
6          amounts of said ink fountain keys by using the preset  
7          correction values, and  
8                   obtaining the opening amounts of said ink  
9          fountain keys in accordance with image area ratios of  
10         respective areas, corresponding to said ink fountain  
11         keys, of said plate by following a preset relationship  
12         between an image area ratio and the opening amounts of  
13         said ink fountain keys.

11.               An ink supply amount adjusting apparatus for  
2          a printing press having an ink fountain for storing an  
3          ink, an ink fountain roller to which said ink is  
4          supplied from said ink fountain, a plurality of ink  
5          fountain keys aligned in an axial direction of said ink  
6          fountain roller to adjust an amount of ink to be  
7          supplied from said ink fountain to said ink fountain  
8          roller, and an ink roller group for supplying said ink

9 to a plate in an amount adjusted in accordance with a  
10 feed rate of said ink fountain roller, comprising  
11 first calculating means for obtaining  
12 reference opening amounts of said ink fountain keys in  
13 accordance with image area ratios of respective areas,  
14 corresponding to said ink fountain keys, of said plate  
15 by following a preset relationship between an image area  
16 ratio and opening amounts of said ink fountain keys, and  
17 second calculating means for uniformly  
18 correcting the reference opening amounts of said ink  
19 fountain keys output from said first calculating means  
20 with preset correction amounts, thereby obtaining set  
21 values of the opening amounts of said ink fountain keys.

12. An apparatus according to claim 11, further  
2 comprising overwriting means for overwriting the  
3 correction values of the opening amounts of said ink  
4 fountain keys.

13. An apparatus according to claim 12, wherein  
2 said overwriting means comprises  
3 third calculating means for obtaining the  
4 reference opening amounts of said ink fountain keys,  
5 prior to start of actual printing, by following the  
6 preset relationship between the image area ratio and the  
7 opening amounts of said ink fountain keys, and  
8 setting means for setting the correction

9       values of the reference opening amounts of said ink  
10      fountain keys output from said third calculating means  
11      on the basis of measured densities of a printing sample  
12      printed by using testing plates having the same image  
13      area ratio.

14.           An ink supply amount adjusting apparatus for  
2        a printing press having an ink fountain for storing an  
3        ink, an ink fountain roller to which said ink is  
4        supplied from said ink fountain, a plurality of ink  
5        fountain keys aligned in an axial direction of said ink  
6        fountain roller to adjust an amount of ink to be  
7        supplied from said ink fountain to said ink fountain  
8        roller, and an ink roller group for supplying said ink  
9        to a plate in an amount adjusted in accordance with a  
10      feed rate of said ink fountain roller, comprising  
11                correction means for correcting origin  
12      positions of the opening amounts of said ink fountain  
13      keys by using the preset correction values of the  
14      opening amounts of said ink fountain keys, and  
15                first calculating means for obtaining set  
16      values of the opening amounts of said ink fountain keys  
17      in accordance with image area ratios of respective areas,  
18      corresponding to said ink fountain keys, of said plate  
19      by following a preset relationship between an image area  
20      ratio and the opening amounts of said ink fountain keys.

15. An apparatus according to claim 14, further  
2 comprising overwriting means for overwriting the  
3 correction values of the opening amounts of said ink  
4 fountain keys.

16. An apparatus according to claim 15, wherein  
2 said rewriting means comprises  
3 second calculating means for obtaining  
4 reference opening amounts of said ink fountain keys,  
5 prior to start of actual printing, by following the  
6 relationship between the preset image area ratio and the  
7 opening amounts of said ink fountain keys, and  
8 setting means for setting correction values of  
9 the reference opening amounts of said ink fountain keys  
10 output from said second calculating means on the basis  
11 of measured densities of a printing sample printed by  
12 using testing plates having the same image area ratio.

17. An ink supply amount adjusting apparatus for  
2 a printing press having an ink fountain for storing an  
3 ink, an ink fountain roller to which said ink is  
4 supplied from said ink fountain, a plurality of ink  
5 fountain keys aligned in an axial direction of said ink  
6 fountain roller to adjust an amount of ink to be  
7 supplied from said ink fountain to said ink fountain  
8 roller, and an ink roller group for supplying said ink  
9 to a plate in an amount adjusted in accordance with a

10 feed rate of said ink fountain roller, comprising  
11 presetting means for presetting correction  
12 values of feed rates of said ink fountain rollers, and  
13 first calculating means for correcting a  
14 preset reference feed rate of said ink fountain roller  
15 by using the correction values obtained by said setting  
16 means, thereby obtaining set values of the feed rates of  
17 said ink fountain rollers.

18. An apparatus according to claim 17, further  
2 comprising overwriting means for overwriting the  
3 correction values of the feed rates of said ink fountain  
4 rollers.

19. An apparatus according to claim 17, further  
2 comprising  
3 second calculating means for obtaining  
4 reference opening amounts of said ink fountain keys in  
5 accordance with image area ratios of respective areas,  
6 corresponding to said ink fountain keys, of said plate  
7 by following a preset relationship between an image area  
8 ratio and the opening amounts of said ink fountain keys,  
9 and

10 third calculating means for uniformly  
11 correcting the reference opening amounts of said ink  
12 fountain keys output from said second calculating means  
13 with preset correction values, thereby obtaining set

14 values of the opening amounts of said ink fountain keys.

20. An apparatus according to claim 17, further  
2 comprising

3 correcting means for correcting origin  
4 positions of the opening amounts of said ink fountain  
5 keys with the preset correction values of the opening  
6 amounts of said ink fountain keys, and

7 second calculating means for obtaining set  
8 values of the opening amounts of said ink fountain keys  
9 in accordance with image area ratios of respective areas,  
10 corresponding to said ink fountain keys, of said plate  
11 by following a preset relationship between an image area  
12 ratio and the opening amounts of said ink fountain keys.

SEARCHED - INDEXED -